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# A BIBLIOGRAPHY OF POWER PLANT ENGINEERING

## A THESIS

PRESENTED BY

GROVER KEETH

TO THE

PRESIDENT AND FACULTY

OF

ARMOUR INSTITUTE OF TECHNOLOGY

FOR THE DEGREE OF

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MECHANICAL ENGINEERING

JUNE 1, 1906

Approved
W. F. Ekhardt
H. M. Raymond. Dean of Eng. Studies

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*Coal and ash handling machinery of the Missouri River Power Co
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Coal and ash handling machinery, Cleveland Electric Ry. Co.
Engineering Record 45 : 475 May 16, 1902

*Ash conveyor of the Mutual Life Bldg., N. Y.
Engineering Record 47 : 85 Jan. 17, 1903

*Coal and ash handling plant, Aurora, Elgin, & Chicago Ry.
Engineering Record 47 : 155 Feb. 7, 1903

*Coal and ash handling plant, Wanamaker power house
Engineering Record 52 : 482 Oct. 28, 1905

*Coal and ash handling plant at the Detroit Edison Co.
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*Steelwork of ash plant, N. Y. Edison Co.
Engineering Record 52 : 655 Dec. 9, 1905

*Coal and ash plant of the Chicago City Ry.
Power 20 : 13 Jan. 1900

*Coal and ash handling machinery at the Atlas Engine Co.
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Coal and ash conveyor of the Manhattan Elevated
St. Ry. Journal 17 : 11 Jan. 5, 1901

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Engineering Record 52 : 677 Dec. 16, 1905

Economical handling of coal and ashes in a power house
Power 24 : 422 July 1904

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*Formulas and tables for bin designing
Engineering News 52 : 68 July 21, 1904

Design of coal pockets
Engineering Record 42 : 201 Sept. 1, 1900

*Design for a coal bin
Power 19 : 14 Nov. 1899

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Power 24 : 651 Nov. 1904

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*Coal handling in central stations (J.F.Hobart)
American Elect. 19 : 266 June 1900

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American Elect. 15 : 426 Oct. 1901

Handling coal for power houses (H.S.Knowlton)
Cassiers 27 : 480 Apr. 1905

Coal and ash conveying gear
Elect. Eng. (Lond) 28 : 14 July 5, 1901
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*Coal handling machinery for a small plant
Elect. World 38 : 907 Nov. 30, 1901

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Economical handling of coal and ash in power houses (W.E.Halloway)
Engineer U.S.A. 41 : 461 July 1, 1904

Coal handling machinery (H.C.Meyers)
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*Coal handling equipment of the Louisville Electric Light Co.
American Elect. 11 : 368 Aug. 1898

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American Elect. 14 : 367 July 1900

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Electrical World 38 : 396 Sept. 7, 1901

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Electrical World 44 : 370 Sept. 3, 1904

Coal handling, Interborough Rapid Transit Co.
Electrical World 45 : 264 Feb. 4, 1905

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Engineer Lond 98 : 354 Oct. 7, 1904

*Coal handling machinery of the Dublin Tramway Co.
Engineer U.S.A. 40 : 94 Jan. 1, 1903

*Coal and ash handling machinery of the Interborough R.T.Co.
Engineer U.S.A. 41 : 377 May 15, 1904
Engineering News 51 : 41 Jan. 14, "

*Coal handling plant at Wandsworth Electric Lighting plant
Engineering 68 : 594 Apr. 20, 1900

*Automatic coal handling plant at Leeds, England
Engineering 69 : 869 June 29, 1900

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Engineering News 51 : 103 Feb. 25, 1904

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Engineering Record 49 : 221 Feb. 20, 1904

*Coal handling plant, Waterside Sta., N.Y. Edison
Engineering Record 52 : 287 Sept. 9, 1905

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Engineering Record 52 : 296 Oct. 7, 1905

*Coal and ash handling machinery at Atlas Engine Co.,
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*Coal conveying plant, Manchester, Eng.
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Coal bucket conveyor, Milwaukee St. Ry.
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Coal conveyor, Capitol Traction Co., Washington
St. Ry. Journal 15 : 744 Oct. 1899

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St. Ry. Journal 25 : 392 Mch. 4, 1905

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St. Ry. Journal 26 : 876 Nov. 11, 1905

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St. Ry. Rev. 9 : 550 Aug. 1899

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*Coal handling locomotive cranes for power plants
St. Ry. Rev. 15 : 427 July 5, 1905

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Western Electrician 31 : 381 Nov. 29, 1902
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*Coal and ash conveying machinery for power plants
Engineer U.S.A. 42 : 4 Jan. 1, 1905

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Western Elect. 77 : 335 Oct. 28, 1905

*Steel and concrete coal storage plant, Lowell Gas Light Co. (F.W.Bowman)
American Machinist 25 : 819 June 5, 1902
A.S.M.E. 23 : 473 May 1902
Engineering 74 : 289 Aug. 29, 1902
Engineering News 47 : 467 June 5, 1902
Engineering Record 45 : 508 May 31, 1902

Storage of coal under water
Engineering 76 : 304 Sept. 4, 1903
Engineering & Mining Jour. 78 : 875 Dec. 1, 1904

*Coal bin, Capitol Traction Co., Washington
Engineering News 41 : 53 Jan. 26, 1899

*Coal storage, St. Louis Transit Co.
Engineering News 47 : 272 Apr. 3, 1902
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*Suspended coal pocket at Cramp's ship yard
Engineering Record 43 : 270 Mch. 9, 1901

Coal bins, S. & S. Co., Chicago
Engineering Record 45 : 530 June 7, 1902

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Engineering Record 48 : 4 July 4, 1903

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Eng. News 3 C. 48 : 484 Dec. 4, 1902

*Razing a brick chimney
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*Demolition of a mill chimney at Manchester
Engr. (Lond) 3 C. 81 : 222 Feb. 28, 1896

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*Monumental brick chimneys of the Paris Exposition
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*Chimney of the Boston Elevated Ry.,
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*Chimney for the Plymouth Cordage Co.,
Eng. Rec. 3 C. 43 : 466 May 18, 1901

*Radial brick chimney at Newark
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*Chimney for the Edison Electric Illumination Co., Boston.
Eng. Rec. 2 C. 48 : 438 Oct. 10, 1903

*Chimney of the Smelting works, Freiburg, Germany.
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*Chimney of Terminal R.R. Assn. of St. Louis, Mo.
Cassier's Mag. 7 C. 13 : 261 Jan. 1898

*Building a 225 ft. chimney; Cambridge Electric Light Co.
Engr. U. S. A. 41 : 371 May 15, 1904

*Chimneys of the Interborough R.T.Co. (W. Kelsey)
Engr. U. S. A. 41 : 737 Nov. 1, 1904

*New combined chimney and ventilating shaft for the town works at Leeds.
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*Glasgow cable subway station chimney
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*Chimney for the Metropolitan St. Ry. Co.
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*Some interesting features of recent chimney construction.
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*Concrete-Steel chimney for the Lieter coal mines
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*New stack of the Prudential Bldg., Newark, N.J.
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*Beton filled chimneys
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*Hollow tile chimney for E.C.STearns & Co.
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*Some interesting features of chimney construction
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*Stack of the N.Y.C. & H.R.R. Albany station
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*Chimney of the U.S.Refrigeration plant at Manila
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*Chimney of a Sanatarium power plant, Denver, Col.
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*Wrought iron chimneys
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*Lining support for the chimneys of Waterside station.
Engng. Record 1 C. 45 : 249 Mch. 15, 1902.

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*Chimneys (C. I. Hubbard)
Amer. Elect. 4 C. 16 : 123 Mch. 1904

New German rules for the stability of chimneys
Engng. Record 3 C. 40 : 152 Aug. 18, 1900

*Construction and dimensions of chimneys for boiler plants
Engng. Record 6 C. 44 : 52,82 July 27, 1901

Design of factory chimneys (F.Schuman)
Engng. Record 4 C. 44 : 371 Sept. 21, 1901

*Chimneys for steam power plant (H.C.Meyer)
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Stability of chimneys, Prussian regulations
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*Brick chimneys for power stations (W.D.Ennis)
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*Brick factory chimneys (W.W.Christie)
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Cassier's Mag. 26 : 341 July 1904

*Chimneys (H.H.Kelley)
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*Steel chimneys and their construction (E.C.Sherman)
Engr. U.S.A. 7 C. 41 : 591 Sept. 1, 1904

*Design of a steel stack (H.H.Wilson)
Engr. U.S.A. 3 C. 40 : 403 June 15, 1905

Masonry chimney construction
Eng. Mag. 1 C. 18 : 124 Oct. 1899

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Power 1 C. 19 : 9 July 1899

Theory and design of chimneys, with criticisms on the common theory, and experimental data (H.B.Gale)
A.S.M.E. 41 pp. 11 : 451 1890

Design of self supporting steel chimneys (J.D.Adams)
Engng. News 7 C. 54 : 64 July 20, 1905

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*Collapse of a 200 ft. brick chimney
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*Chimney disaster at Burnley
Engr. (Lond) 5 C. 81 : 144 Feb. 7, 1896

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*Moving a 110 ft. steel chimney
Engng. News 2 C. 49 : 380 Apr. 30, 1903

Moving a tall smoke stack across a roof
Engng. Record 1 C. 48 : 282 Sept. 5, 1903

*Moving a large brick chimney
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*Plumbing a brick chimney
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A.S.M.E. 7 pp. 16 : 75 1895

*Extending a tall smoke stack in service
Engng. Record 48 : 72 July 18, 1903

Repairing a steel chimney in an office building
Engng. News 1 C. 47 : 237 Mch. 20, 1902

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*Chimney draft (F.R.Low)
Power 3 C. 20 : 12 Feb. 1900

Friction and the effect of elbows on chimney draft
Power 1 C. 20 : 4 Apr. 1900

Mechanical draft and the chimney in the design of steam power plants
Engng. Record 6 C. 47 : 468 May 5, 1901

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Chimneys and Drafts (E.D.Meier)
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*Chimneys (F.R.Low)
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The mechanical theory of chimney draft (J.R.Webb)
A.S.M.E. 9 pp. 11 n 762 1890

Tests of recent formulae for chimney draft (W.Kent)
A.S.M.E. 11pp. 11 : 984 1890

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*Cooling towers (C. L. Hubbard)
Engineer (U.S.A.) 41 : 768 Nov. 15, 1904.

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Engineer (U.S.A.) 43 : 69-72 Jan. 1, 1906.

*Zschocke cooling tower for condenser plant
Engineering 71 : 602 May 10, 1901.

Cooling towers
Ice & Refrigeration 18 : 190 March 1900.

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Power 23 : 683 Dec. 1903.

*The "Only" cooling tower
Power 24 : 785 Dec. 1904.

*Wheeler cooling tower
St. Ry. Journal 17 : 449 Apr. 6, 1901.

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St. Ry. Journal 19 : 739 Jan. 7, 1902.

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St. Ry. Review 11 : 249 Apr. 15, 1901.

*Victor cooling tower
St. Ry. Review 11 : 581 Sept. 15, 1901.

*Self-cooling condenser (L. R. Alberger)
A.S.M.E. 17 : 625 May 1896.

*Towerless cooling tower and surface condenser combined
Engineering News 48 : 546 Dec. 25, 1902.

Cooling towers and the removal of oil from exhaust steam (Boyle)
Engineering Record 43 : 391 Apr. 27, 1901

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*Barnard fanless cooling towers
American Electrician 12 : 451 Sept. 1900.

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*Fanless self-cooling tower
Engineer (U.S.A.) 37 : 220 Sept. 1, 1900.

*Fanless cooling tower
St. Ry. Journal 16 : 755 Aug. 4, 1900.

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St. Ry. Review 10 : 454 Aug. 15, 1900.

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*Cooling tower and condenser installation (Vail)
A.S.M.E. 20 : 157 Dec. 1898.

*Cooling tower and cooling tower installation (J. H. Vail)
Engineer (U.S.A.) 36 : 39 Feb. 15, 1899.

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Engineer (U. S.A.) 41 : 852 Dec. 15, 1904.

Cooling tower and condenser installation (J. H. Vail)
Engineering News 40 : 355 Dec. 8, 1898.

*Cooling tower for power plant, St. Louis
Engineering Record 49 : 718 June 4, 1904.

*Cooling tower and condenser equip. of Georgia Ry. and Elect. Co.
Engineering Record 50 : 54 July 9, 1904.

*Cooling tower and fan drive of Wing Bldg., N. Y.
Engineering Record 50 : 279 Sept. 3, 1904.

*Cooling tower
Power 16 : 1 March 1896.

Cooling tower and condenser installation
Power 19 : 10 Jan. 1899.

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*Inexpensive cooling tower
Electrical World 36 : 260 Aug. 18, 1900.

*Homemade cooling tower
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*Jennison water cooling tower
Power 23 : 682 Dec. 1903.

Cooling tower data
St. Ry. Review 9 : 34 Jan. 1899.

Cooling tower in modern power house (J. H. Vail)
St. Ry. Review 11 : 273 Oct. 12, 1901

Theory of the cooling tower (B. Nachman)
Power 23 : 875 Dec. 1903.

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Cooling towers for steam turbine plants
Engineer (U.S.A.) 42 : 752 Nov. 15, 1905.

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*Commercial forms of cooling towers (C. M. Obert)
American Electrician 13 : 475 Oct. 1901.

*Cooling systems for condensing water (Starkweather)
Cassier's Magazine 10 : 16 May 1896.

*Condensation without water supply (L. R. Alberger)
Cassier's Magazine 11 : 205 Jan. 1897.

*Self-cooling condenser (Alberger)
Electrical World 27 : 713 June 13, 1896.

*Worthington self-cooling condenser
Electrical World 28 : 638 Nov. 21, 1896.

*Cooling water for condensers (Mosscoop)
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*Condensing steam for boiler feed (A. Pennell)
Engineer (U. S. A.) 41 : 268 Apr. 15, 1904.

*Air cooled surface condenser
Engineering News 48 : 271 Oct. 2, 1902.

*Air cooled surface condenser
Engineering News 49 : 303

*Air cooled surface condensers in the Ansonia Hotel, N. Y.
Engineering Record 46 : 467 Nov. 15, 1902.

*Saturated air condensers
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St. Ry. Review 9 : 383 June 15, 1899.

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Western Electrician 26 : 323 May 19, 1900.

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*An aspirator for a surface condenser (A. Pennell)
Engineer (U.S.A.) 42 : 547 Aug. 15, 1905.

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Power 19 : 8-16 Aug. 1899.
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Engineering Magazine 20 : 56 Oct. 1900.

*Worthington central jet condenser
Engineering News 47 : 270 Apr. 3, 1902.

*Central condensing systems (Alberger)
Iron Age 73 : 34 Jan. 7, 1904.

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*Cooling water for condensers (E. R. Briggs)
American Mah. 28 : 656 May 18, 1905.

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*Counter current jet condensers
American Electrician 17 : 81 Feb. 1905.

*Apparatus for condensing steam
American Electrician 17 : 82 Feb. 1905

*Counter current jet condenser
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*Condenser in design of steam power plants (Meyer)
Engineering Record 43 : 55 Jan. 19, 1901.

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*Condensing plant (Booth)
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*Condenser plant (Summerfield)
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*Improved condensing apparatus
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*Steam condenser
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*Injector condenser
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*Condensation of steam
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*Combined air pump and condenser
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*Cobb patent surface condenser
Engineering News 39 : 270 Apr. 28, 1898.

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*Condensing and pumping machinery at the St. Louis Exposition.
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*Electric elevators
Electrical World 7 C. 29 : 447 Apr. 3, 1897
4 C. 475 10, 1897
4 C. 506 17, 1897
4 C. 561 May 8, 1897

*Direct connected elevator equipment
Electrical World 1 C. 26 : 319 Nov. 24, 1900

*Type of heavy sidewalk electric elevator
Engineering News 3 C. 40 : 204 Sept. 28, 1898

*Direct electric elevator
Western Electrician 1 C. 13 : 44 July 22, 1893

*Standard high duty electric elevator
Western Electrician 2 C, 17 : 255 Nov. 23, 1895

*Electric elevators for safe operation at high speed (H.Cochrane)
Western Electrician 7 C. 27 : 283 Nov. 3, 1900
4 C. 299 10, 1900

*Otis electric elevator for private houses
Electrical World 2 C. 28 : 161 Aug. 8, 1896

*Otis elevator
Electrical World 5 C. [illegible] : 647 May [illegible], 1[illegible]
4 C. 694 [illegible], 1[illegible]

Mabbs electric elevator
*American Electrician 1 C. 17 : 540 Oct. 1905
*Electrical World 5 C. 46 : 453 Sept. 9, 1905
#Engineer U. S.A. 10 C. 46 : 592 Sept. 1, 1905

*Frisbie elevator
Electrical Review 2 C. 23 : 97 Sept. 9, 1893
" World 2 C. 23 : 205 " 9, 1893

*Buckley electric elevator
Electrical Rev. N.Y. 1 C. 27 : 50 July 24, 1895

*Morse direct electric elevator
Electrical World 1 C. 21 : 452 June 17, 1893

*Hamilton elevator
Electrical World 2 C. 24 : 62 July 21, 1894

*Cahill and Hall direct electric elevator
Electrical World 2 C. 30 : 514 Nov. 12, 1898

*Fundamental features of electric elevators (E.R.Carichoff)
Electrical Review N.Y. June 24, 1905

Electrically driven lifts (F.O.Hunt)
Elect. Eng. London Apr. 7, 1905

ELECTRIC-SPRAGUE.

*Passenger lift equipments for Central London Ry.
Engineering C. : 273 Mch. 7, 1902
4 C. 706 Mch. 10, 1899

*Sprague electric elevator
American Machinist 3 C. 19 : 948 Oct. 1896

*Safety governor of the Sprague-Pratt electric elevator
American Machinist 2 C. 20 : 754 Apr. 1, 1897

*Sprague-Pratt elevator
Electrical World 10 C. 22 : 539 Apr. 24, 1897

HYDRAULIC.

*Low pressure hydraulic elevator (W.Baxter, Jr.)
American Machinist 6 C. 24 : 479 May 2, 1901

*Valve gears for high pressure hydraulic elevators (W.Baxter, Jr.)
American Machinist 6 C. 24 : 695 June 6, 1901

*Otis double power hydraulic elevator (W.Baxter, Jr.)
American Machinist 6 C. 24 : 713 June 27, 1901

*Hydraulic plunger elevators (W.Baxter, Jr.)
Engineer U.S.A. 9 C. 41 : 698 Oct. 15, 1904

*Aero-hydraulic elevator (W.Baxter, Jr.)
Engineer U.S.A. 6 C. 41 : 934 Dec. 15, 1904

*Evolution of hydraulic elevators (C.L.Buenkel)
Engineering News 10 C. 49 : 118 Feb. 5, 1903

*Comparison between vertical and horizontal cylinder hydraulic elevator engines (N.S.Huyette)
Power 4 C. 17 : 8 July 1897
2 C. 5 Aug. 1897

*Works of the standard plunger elevator Co. (W.A.Waterman)
Machinery 10 : 579 July 1904

INCLINED.

New inclined elevator (electric)

| | | | |
|---|---|---|---|
| Electrical World | 1 C. | 22 : 103 | Aug. 5, 1893 |
| | 1 C. | 28 : 577 | Nov. 7, 1896 |
| | 1 C. | 37 : 999 | June 24, 1901 |
| *Engineer (Lond) | 2 C. | 90 : 136 | Aug. 10, 1900 |
| *Engineering News | 3 C. | 28 : 189 | Aug. 25, 1892 |

Inclined elevator at the Paris exposition

| | | | |
|---|---|---|---|
| *Electrical World | 1 C. | 35 : 676 | Apr. 28, 1900 |
| Engineering | 2 C. | 70 : 699 | Nov. 30, 1900 |

*Electric inclined elevator for elevated railways

| | | | |
|---|---|---|---|
| Electrical World | 1 C. | 36 : 414 | Sept. 15, 1900 |

MISCELLANEOUS SYSTEMS.

New elevator hoisting mechanism (Neenan System)

| | | | |
|---|---|---|---|
| *American Elect. | 1 C. | 14 : 153 | Mch.1902 |
| | | 192 | Apr.1902 |
| American Machinist | 2 C. | 25 : 615 | May 1, 1902 |

*New spiral elevator

| | | | |
|---|---|---|---|
| Engineering Record | 2 C. | 48 : 248 | Aug. 29, 1903 |

GENERAL STATEMENT.

Modern elevator types and elevator practice (H.S.Knowlton)

| | | | |
|---|---|---|---|
| Engineering Mag. | 8 P. | 28 : 241 | Nov. 1904 |

*Elevators (W.Baxter, Jr.)

| | | | |
|---|---|---|---|
| Engineer U.S.A. | 6 C. | 41 : 283 | Apr. 15, 1904 |
| | 2 C. | 359 | May 15, 1904 |

*Selection and installation of hydraulic elevators (H.D.James)

| | | | |
|---|---|---|---|
| Engineering News | 8 C. | 48 : 74 | July 31, 1902 |

*Elevators (W.Baxter, Jr.)
Engineer U. S. A. 2 C. 41 : [illegible] Apr. 15, 1904
2 C. 559 May 15, 1904

*Selection and installation of hydraulic elevators (W.F.Jones)
Engineering News 2 C. 42 : 74 July 21, 1900

*Electric elevators (H.D.James)
American Elect. 2 C. 14 : 217 May 1900

*Electric elevators (W.A.Gibson)
Elect. Rev. Lond. 38 : 226 Feb. 21, 1896

Standards of practice in electric elevator installation (S.R. [illegible])
*Engineering Mag. 14 P. 14 :479 Dec. 1897
*Western Elect. 2 C. 21 : 548 Dec. 18, 1897
Jour. West. Soc. Eng. 4 P. 2 : 749 Dec. 1899

*Some problems in electric elevator work (H.Cochrane)
Western Elect. 2 C. 18 : 267 May 30, 1896
2 C. 274 " " "

Present status of electric elevators (James)
Electrical World 43 : 120 June 25, 1904

INSTALLATIONS.
ELECTRIC.
*Electric elevator plant of the Commercial Cable Bldg., N.Y.
Elect. Rev. N. Y. 2 C. 32 : 287 May 4, 1898

*Elevator at the Paris exposition
Elect. Rev. N.Y. 2 C. 33 : 571 Dec. 14, 1898

*Electric elevators in the Siegel, Cooper Bldg., N.Y.
Electrical World 4 C. 28 : 502 Oct. 24, 1896

Elevators in the Park Row Bldg.
Electrical World 2 C. 34 : 41 July 7, 1900

Electric elevator for the Washington Monument
Electrical World 2 C. 36 : 818 Nov. 24, 1900
3 C. 38 : 176 Aug. 3, 1901
*Engineering News 2 C. 46 : 114 Aug.22, 1901
*Western Elect. 2 C. Dec. 15, 1900
3 C. 29 : 3 July 6, 1901

*Electric elevators in the government printing office
Electrical World 3 C. 43 : 82 Jan. 9, 1904

Elevators in a modern commercial building
Engineering Record 1 C. 70 : 74 Dec. 10, 1904

*Some recent high capacity electric elevators
Engineering Record 49 : 604 Nov. 14, 1903

*Large electric passenger elevator in London
Western Electrician 2 C. 30 : 90 Feb. 8, 1902

*Standard electric elevators in the Fine Arts Bldg., Chicago
Western Electrician 1 C. 25 : 204 Dec. 23, 1899

ELECTRIC-SPRAGUE.

*Passenger lift equipments for the Central London Ry.
Engineering 5 C. 65 : 774 Mch. 3, 1
4 C. 96 Mch. 10, 1
Engineering Mag. 1 C. 16 : 765 Dec. 1
" News 12 C. 40 : 774 Nov. 3, 1

*Sprague elevator
Electrical World 2 C. 28 : 946 Aug. 29, 1

*Elevator equipments of the Ivins Syndicate Bldg., N.Y.
Engineering News 1 C. 41 : 274 Apr. 27, 1

HYDRAULIC.

*Elevators in Montgomery Ward & Co. Bldg.
Engineering Record 2 C. 47 : 497 May 25, 1901

Elevator plant of the John Taylor Dry Goods Co. Kansas City.
*Electrical World 1 C. 45 : 1045 June 3, 1905
*Engineer U.S.A. 4 C. 40 : 410 June 15, 1905
American Machinist 1 C. 28 : 708 May 25, 1905
Engineering Record 51 : 692 June 17, 1905
25 : 427 Aug. 1905

*Elevators in the C. & N. W. Ry. Co. Bldg.
Engineer U.S.A. 2 C. 40 : 740 Nov. 15, 1905

*Elevators of the Glasgow harbor tunnel
Engineering 2 C. 59 : 691 May 31, 1895
2 C. 757 June 14, 1895
2 C. 819 June 28, 1895

*High duty pump and elevator system for a warehouse
Engineering Record 5 C. 54 : 185 Aug. 8, 1896

Elevators of the Broad Exchange Bldg., N.Y.
Engineering Record 2 C. 45 : 775 Apr. 19, 1902

Elevators in the Chicago Tribune Bldg.
Engineering Record 1 C. 45 : 609 June 28, 1902

Elevators in the Ansonia apartment hotel, N.Y.
Engineering Record 1 C. 46 : 470 Nov. 15, 1902

*Elevators of the Hotel Belmont, N.Y.
Engineering Record 52 : 81 Jan. 20, 1906

*Hydro-electric elevators in the Tudor apartments, Chicago
Engineering Record 51 : 125 Feb. 24, 1[illegible]
Western Electrician [illegible] : 155 Feb. 24, 1[illegible]

Elevators of the Mutual Life Bldg., N.Y.
Engineering Record I C. 47 : 87 Jan. 17, 1[illegible]

MISCELLANEOUS.

*New arrangement of [illegible] elevator car (E.P. Fairbanks)
Electrical World & E. 39 : 406 Mch. 1, 1902

Elevator defects
Engineering News & E. 57 : 367 Mch. 9, 1905

Passenger elevators (T.E.Brown)
American Machinist & E. 27" : 1380 Oct. 13, 1904
Engineering & E. 78 : 603 Nov. 4, 1904

Passenger elevators
Engineering Mag. 13 : 697 Jan. 1897

Mechanical details in high office buildings
Engineering Record 47 : 594 June 1, 1901

*Aeration of the discharge from an elevator pump
Engineering Record & E. [illegible] : [illegible] May 9, 1896

*Induction motors for elevators (A.B.Weeks)
American Electrician & E. 15 : 219 June 1903

Accumulators for electric elevators
Electrical World & E. 29 : 704 June 5, 1897

Electric elevator problems (J.E.Woodbridge)
Electrical World & E. 30 : 165 Aug. 7, 1897

*Elevator calling signals in N.Y. Telephone Bldg.
Electrical World & E. 30 : 370 Sept. 4, 1897

*Smith's electro-magnetic elevator
Western Electrician & E. 19;297 Dec. 19, 1896

*Automatic electric elevator used as a book lift
Western Electrician & E. 29 : 30 July 13, 1901

*Alternating current electric elevator
Western Electrician & E. 30 : 388 May 16, 1903

*Single phase elevator motor
Western Electrician & E. 36 : 330 Mch. 25, 1905

*New automatic electric elevator
Western Electrician & E. 37 : 390 Nov. 18, 1905

SAFETY.

Safety of elevators (L.H[illegible])
American Machinist 2 C. 20 : 280 Oct. 28, 1897

*Safety stop for elevators (L.Wanford)
American Machinist 2 C. 21 : 6

*Elevator safety appliances (W.Baxter, Jr.)
American Machinist 7 C. 25 : 770 Mch. 13, 1902
6 C. 404 Mch. 20, 1902
6 C. 1224 Aug. 28, 1902
6 C. 1306 Sept. 11, 1902
6 C. 1330 Sept. 18, 1902

*Automatic guide for elevator rope (I.E.Victor)
American Machinist 2 C. 28 : 45 Jan. 12, 1905

*Protection of lift shafts (H.C.Walker)
Engineering 6 C. 71 : 845 Mch. 28, 1902

*Elevator safety appliances (C.R.Wright)
Engineering 2 C. 74 : 850 Aug. 28, 1902

*New pneumatic device for high speed passenger elevators
Engineering News 42 : 263 Oct. 10, 1899

*Elevator safeties (C.R.Pratt)
Engineering News 3 C. 47 : 490 June 12, 1902
Engineering Record 4 C. 45 : 567 June 14, 1902

*Elevator safety (T.E.Brown)
Engineering News 3 C. 53 : 113 Feb. 6, 1905

Test of an elevator air cushion
American Machinist 2 C. 25 : 1511 Oct. 27, 1902
Engineering News 4 C. 40 : 295 Oct. 8, 1898

Air cushion test
Engineering News 1 C. 40 : 56 July 28, 1898

High buildings and safe elevators
Engineering News 4 C. 36 : 345 Nov. 26, 1896
4 C. 367 Dec. 3, 1896

Safety in elevators (C.Rennerfelt)
Electrical World 1 C. 40 : 47 July 12, 1902

Safety in elevators (C.F.Shepard)
Electrical World 2 C. 40 : 257 Aug. 16, 1902

Electric elevators (C.R.PRatt)
Western Electrician 1 C. 31 : 512 Nov. 1, 1902

TESTS.

Operating cost of electric elevators

American Elect. J C. 17 : 95 Feb. 1905
Electrical Age J C. 34 : 710 April 1905

Test of a hydraulic elevator system (R.T.Bolton)

American Machinist J C. 26 : 950 July 2, 1903
A.S.M.E. 24 : 933 June 1903
Engineering News 4 C. 49 : 562 June 25, 1903
Engineering Record 3 C. 48 : 133 Aug. 1, 1903

Test of a plunger elevator plant in the Trinity Bldg. (A.J.Herschmann)

*Engineering News 10 C. 54 : 615 Dec. 14, 1905
*Engineering Record 7 C. 52 : 679 Dec. 16, 1905

Power consumption of elevators operated by alternating and direct current motors (C.F.Sewer)

Engineer U.S.A. 4 C. 29 : 350 May 1, 1902
Western Electrician 5 C. 30 : 302 May 7, 1902

Test of Sprague-Pratt elevators in the Park Row Bldg.

Engineering Record 6 C. 44 : 9 July 6, 1901

Elevator motor tests (E it)

American Electrician 2 C. 14 : 285 June 1902

Feed Water Heaters.

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Feed Water Heating.

DESCRIPTION.

CLOSED HEATERS.

| | | | |
|---|---|---|---|
| *Feed water heaters (J.F.Hobart) | | | |
| American Elect. | 5 C. | 19 : 836 | May 1900 |
| | 6 C. | 754 | July 1900 |
| *The Airedale water heater | | | |
| American Elect. | 1 C. | 17 :174 | Apr. 1901 |
| *Feed water heating- American practice (W. W. Christie) | | | |
| Cassier's | 24 C. | 24 : 330 | Aug. 1903 |
| *Kirkaldy's feed water heater | | | |
| Engineering | 2 C. | 60 : 457 | Oct. 11, 1895 |
| *The Wainwright feed water heater | | | |
| St. Ry. Journal | 1 C. | 25 : 776 | Feb. 25, 1905 |
| *Bundy feed water heater | | | |
| American Elect. | 1 C. | 10 : 179 | Apr. 1898 |
| *Robertson feed water heater | | | |
| American Elect. | 1 C. | 11 : 19 | Jan. 1899 |
| Elect. World | 1 C. | 32 : 199 | Nov. 5, 1898 |
| *Cookson heater | | | |
| American Elect. | 2 C. | 11 : 201 | Apr. 1899 |
| *Otis feed water heater | | | |
| American Elect. | 1 C. | 11 : 306 | June 1899 |
| St. Ry. Journal | 2 C. | 17 : 647 | Dec. 1905 |
| *K ller feed water heater | | | |
| American Elect. | 1 C. | 14 : 155 | Mch. 1902 |
| Engineer U.S.A. | 3 C. | 41 : 457 | Sept. 15, 1904 |
| | | 32 : 389 | Aug. 20, 1898 |
| *Anderson feed water heater | | | |
| American Elect. | 1, C. | 15 : 472 | Sept. 1903 |
| The Goubert heater | | | |
| Elect. Rev. N.Y. | 2 C. | 29 : 109 | Sept. 9, 1896 |
| *The National feed water heater | | | |
| Engineer U.S.A. | 1 C. | 41 : 226 | Mch. 15, 1904 |
| Iron Age | 1 C. | 27 : 5 | " 10, " |
| *Ross feed water heater and purifier | | | |
| Engineer U.S.A. | 2 C. | 40 : 156 | Feb. 15, 1905 |
| Closed heaters | | | |
| Engineer U.S.A. | | 40 : 13 | Jan. 1, 1906 |
| *Berryman feed water heater in collieries | | | |
| Engineer (Lond) | 1 C. | 81 : 131 | Feb. 7, 1896 |

*American standard feed water heater and economizer arrangement
St. Ry. Journal 1 C. 29 : 59 July 5, 1907

*Blake-Knowles feed water heater
Electrical World 1 C. 45 : 1001 May 21, 1904
Engineering News 2 C. 51 : 489 May 26, 1904
Iron Age 2 C. 73 : 4 Apr. 28, 1904

*Loew closed feed water heater
American Elect. 1 C. 17 : 645 Dec. 1905
Engineer U.S.A. 1 C. 49 : 377 Nov. 1, 1905
Engineering Review 1 C. 15 : 19 Nov. 1905

OPEN HEATERS.

*Feed water heating-American practice (W.W.Christie)
Cassier's 24 C. 24 : 33 Aug. 1903

*Otis feed water heater, oil separator, and filter combined
American Electrician 1 C. 17 : 106 Feb. 1905

*Murray feed water heater and purifier
American Elect. 1 C. 17 : 167 Mch. 1905

*The Webster heater
American Elect. 1 C. 14 : 502 Dec. 1902
Engineer U.S.A. 2 C. 49 : 494 June 15, 1905

*Open feed water heaters and their application (W.T.Edwards)
American Elect. 2 C. 17 : 481 Sept. 1905

Open heaters
Engineer U.S.A. 47 : 17 Jan. 1, 1906

*Dry steam feed water heater
Engineer (Lond) 1 C. 27 : 605 Jan. 16, 1899

*Chevalet feed water heater and softener
Engineering 1 C. 69 : 917 June 29, 1900

*Warwick heater and softener
Engineering 1 C. 70 : 745 Sept. 14, 1900

*Stillwell's heater
Engine ring Record 1 C. 41 : 709 Mch. 31, 1900

*Taylor steam economist
Engineering Record 2 C. 47 : 457 May 11, 1901

*Cookson heater, purifier, and separator
Power 1 C. 16 : 13 May 1896

*The Keller heater
Power 1 C. 20 : 58 Dec. 1900

*Stickle open heater and purifier
Power 3 C. 25 : 707 Nov. 1905

*Bonar heater and purifier
St. Ry. Journal 1 C. 15 : 69 Jan. 1899

*Stillwell Bierce-Smith, Vaile heater
St. Ry. Journal 1 C. 16 : 777 Apr. 7, 1900

*The Cochrane open heater
Power 4 C. 16 : 11 May 1896
St. Ry. Journal 2 C. 25 : 372 Feb. 19, 1905

*The Hoppes feed water heater
American Electrician 1 C. 11 : 540 Nov. 1899
American Elect. 1 C. 13 : 555 Nov. 1901
Electrical World 38 : 676 Oct. 26, 1901
Electrical World 1 C. 38: 965 Nov. 23, 1901
Engineer U.S.A. 1 C. 48 : 767 Nov. 15, 1905
Engineering News 1 C. 32 : 355 June 2, 1899
St. Ry. Journal 1 C. 18 : 54 July 6, 1901

GENERAL.

Live steam feed water heaters (E.F.Durand)
American Elect. 5 C. 19 : 914 May 1900

Feed water heating
Elect. Rev. (Lond) 1 C. 43 : 818 Dec. 9, 1898

Heater problem from a commercial point of view (H.I.Henburn)
Powe 7 C. 28 : 11 Apr. 1908

Open feed water heater (E.T.Welch)
St. Ry. Journal 2 C. 25 : 227 Feb. 4, 1905

Feed water heating (A.T.Strohm)
American Elect. 8 C. 16 : 570 Dec. 1904

Feed water heating and boiler feeding (Edit)
American Elect. 1 C. 13 : 81 Feb. 1901

Feed water heating
Engineer U.S.A. 43 : 2 Jan. 1, 1906

MISCELLANEOUS.

Feed water heaters vs. economizers (Edit)
American Elect. 2 C. 11 : 295 Aug. 1899

Economy of feedwater heating
American Elect. 1 C. 17 : 152 Mch. 1905

Economical effect of live steam feed water heating
Elect. Rev. (Lond) 2 C. 42 : 677 May. 20, 1898

*Location of feed water heaters and feed pipes (W.H.Wakeman)
Engineer U.S.A. 4 C. 42 : 133 Feb. 15, 1905

Economyof heating by live steam (Edit)
Engineering Record 1 C. 37 : 467 Apr. 30, 1898

Value, condensation, etc., of feed water heaters (H.C.Meyers)
Engineering Record & C. 47 : 294 Mch. 9, 1901

*Feed water heaters in condensing plants (C.C.Robbins)
Power 11 C. 22 : 13 Feb. 1902

*Comparative methods of heating feed water
Power 11 C. 22 : 96 Nov. 1902

Rating of feed water heaters (Edit)
Power 1 C. 23 : 970 May 1903

Cleveland Stone Co's. feed and condensing system
Power 1 C. 24 : 648 Aug. 1904

*An economical feed water heating arrangement
Power 1 C. 25 : 919 Apr. 1905

Some phases of the feed water heater problem (W.E.Harrington)
St. Ry. Journal & C. 26 : 145 July 22, 1905

Open and closed feed water heaters
Engineer U.S.A. 47 : 78 Jan. 1, 1906

Combined feed water heater and hot well
Engineer U.S.A. 47 : 277 Apr. 16, 1906

*The economy of the feed water heater (O.S.Pederson)
Engineer U.S.A. & C. 41 : 562 Aug. 15, 1904

*Feed water for steam turbine plants
Engineer U.S.A. & C. 42 : 102 Mch. 1, 1905

THEORY.

Feed water heaters (C.L.Hubbard)
American Elect. 7 C. 17 : 570 Oct. 1905

Feed water heaters (F.R.Briggs)
Engineer (Lond) 5 C. 100 : 77 July 28, 1905

The feed water heater (A.E.Elliott)
Engineering 6 C. 59 : 67 Jan. 11, 1895
5 C. 97 Jan. 18, 1895
2 C. 101 Feb. 8, 1895

Coefficients for calculating the heating surface of feed water heaters (C.R.Weymouth)
Power 1 C. 28 : 28 May 1902

Computing the heating surface required for feed waterheaters
St. Ry. Journal 1 C. 20 : 107 July 19, 1902

Feed Water Purification.

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DESCRIPTIVE.

ARCHBUTT-DEELEY

The Archbutt-Deeley water softening process

| | | | | |
|---|---|---|---|---|
| Elect. Rev. (Lond) | 1 C. | 37 : | 793 | Dec. 27, 1895 |
| Engineer Lond. | 3 C. | 86 : | 151 | Aug. 12, 1898 |
| | 5 C. | | 188 | Aug. 18, 1898 |
| Engineering | 3 C. | 60 : | 610 | Nov. 15, 1895 |

KENNICOTT

*Practical softening of water (C.L.Kennicott)

| | | | | |
|---|---|---|---|---|
| Engineer U.S.A. | 6 C. | 39 : | 780 | May 15, 1902 |
| Engineering News | 5 C. | 47 : | 786 | May 15, 1902 |
| Engineering Record | 7 C. | 45 : | 419 | May 3, 1902 |
| St. Ry. Journal | vol. | 20 : | 587 | Oct. 4, 1902 |
| | | 23 : | 545 | Apr. 2, 1904 |

MISCELLANEOUS.

*The Criton purifier

| | | | | |
|---|---|---|---|---|
| Electrical World | 3 C. | 46 : | 240 | Aug. 5, 1905 |

*The Rational water purifier

| | | | | |
|---|---|---|---|---|
| Engineer U.S.A. | 2 C. | 39 : | 654 | Sept. 15, 1902 |

*Brunn automatic water softener

| | | | | |
|---|---|---|---|---|
| Engineer (Lond) | 1 C. | 81 : | 162 | Feb. 14, 1896 |

*Water softener and purifier

| | | | | |
|---|---|---|---|---|
| Engineer Lond. | 1 C. | 82 : | 257 | Sept. 11, 1896 |

*Beissel continuous water softener

| | | | | |
|---|---|---|---|---|
| Engineer London | 2 C. | 92 : | 415 | Oct. 18, 1901 |

*Wollaston water softener

| | | | | |
|---|---|---|---|---|
| Engineer London | 1 C. | 93 : | 173 | Feb. 14, 1902 |

Reisert automatic water softener

| | | | | |
|---|---|---|---|---|
| Engineer London | 1 C. | 98 : | 653 | Dec. 30, 1904 |

*Water purification plant

| | | | | |
|---|---|---|---|---|
| Engineer London | 1 C. | 99 : | 50 | Jan. 13, 1905 |

*Patterson purifier and softener

| | | | | |
|---|---|---|---|---|
| Engineer London | 3 C. | 99 : | 301 | Mch. 24, 1905 |

*Brunn-Lowener water softener

| | | | | |
|---|---|---|---|---|
| Engineering | 2 C. | 71 : | 745 | June 7, 1901 |

*Water softeners
Engineering 3 C. 74 : 266 Aug. 29, 1902

Grevenbroich water softener
Engineering 1 C. 74 : 670 Nov. 21, 1902

*Harris-Anderson water softener
Engineering 3 C. 74 : 46, 52 July 10, 1903

*Water softeners (Stromeyer & Baron)
Engineering 24 C. 76 : 876 Dec. 25, 1903

*Four systems of water softening for industrial purposes
Engineering News 10 C. 50 : 4 July 2, 1903

*Water softening plant of the Proctor & Gamble Co.
Engineering News 4 C. 51 : 94 Jan. 28, 1904

*Burt continuous water softening process
Engineering News 1 C. 52 : 238 Sept. 15, 1904

*Water purifying plant
Power 3 C. 17 : 22 Dec. 1897

*Organ's feed water purifying system
Power 2 C. 24 : 374 June 1904

*Holmes system of water purification
Power 2 C. 25 : 248 Apr. 1905

*Automatic feed water purification
St. Ry. Journal 2 C. 19 : 576 May 3, 1902

*The American water purifier and softener
Engineer U.S.A. 1 C. 41 : 551 Aug. 1, 1904

*Tweedale system of water purification
Engineering Review 1 C. 10 : 5 Nov. 1900
Power 2 C. 20 : 16 Nov. 1900
St. Ry. Journal 2 C. 16 : 1004 Oct. 13, 1900

WE-FU-GO

*Purification of water for industrial purposes (J.C.M.Greth)
Engineer U.S.A. 4 C. 40 : 90 Jan. 1, 1903

*Purifying plant-We-Fu-Co system
St. Ry. Rev. 2 C. 11 : 771 Oct. 1901

FILTERS.

*Feed water filter
American Electrician 2 C.15 : 40 Jan. 1903

*Reeves patent feed water filter
Elect. Rev. London 1 C. 36 : 770 June 21, 1895

*Watsons feed water filter
Engineering 4 C. 69 : 51 Jan. 12, 1900

*Oil filter for boiler feed water (D.H.Maury)
Engineering News 4 C. 39 : 398 June 23, 1898
St. Ry. Rev. 3 C. 8 : 463 July 1898

*Boothman's feed water filter
Engineering 3 C. 69 : 748 June 8, 1900

*Gravitation feed water filter
Engineering 1 C. 72 : 837 Dec. 20, 1901

Harris-Anderson feed water filter
Engineering 2 C. 74 : 210 Aug. 15, 1902

GENERAL

Purification of feed water (H.H.Dow)
Electrical World 31 : 785 June 25, 1898
American Elect. 1 C. 10 : 328 July 1895

*Scinetific treatment of impure boiler feed waters (J.H.Parsons)
American Elect. 3 C. 11 : 475 Sept. 1899

Feed water purification
American Elect. 5 C. 12: 145 Mch. 1900
2 C. 190 Apr. 1900

Water softening (W.N.Waefelaer)
American Machinist 3 C. 27 : 584 May 5, 1904

*Water softening (W.N.Twelvetrees)
Cassier's 24 C. 15 : 465 Apr. 1899

Softening and purification of water for boilers (J.C.M.Greth)
Cassier's 18 C. 25 : 506 Apr. 1904
Iron AGe 9 C. 72 : 28 Feb. 11, 1904

Water purification for steam boilers (J.M.Wilson)
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*Water power on the Apple River
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| *Power plant of the Milano-Gallarate-Porto Ceresio Ry. | | |
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| *Niagara (J.E.Woodbridge) | | |
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*Niagara Falls power (H.W.Buck)

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New wheel pit Niagara Falls power Co. (O.E.Dunlap)

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*Norwegian hydro-electric plant

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*Hydro electric power plant of Christiana, Norway

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*Ontario power Co.

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*Port Huron Light & Power Co.
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*The Puyallup River water power development
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Engineering Record 50 : 399 Oct. 1, 1904

*Saut Mortier transmission plant
American Electrician 17 : 457 Sept. 1905

*The Sill hydraulic power plant near Innsbruck
Engineering Record 52 : 1[illegible] July 1, 1905

*Standard & Bay Co. plant
Engineer U.S.A. 40 : 46 Jan. 1, 1903

Snoqualmie Falls
American Electrician 13: 497 Oct. 1901
Power 19 : 1 Oct. 1899
Engineering News 44 : 398 Dec. 13, 1900

*Swiss combined water power and gas engine plant
American Electrician 15 : 113 Mch. 1903

St. Croix power plant
Engineering Magazine 20 : 954 Feb. 1901

Sault Sainte Marie power plant (H.VonSchon)
Engineering Magazine 24 : 277 Nov. 1902

*Combined hydraulic and steam plant, Stuvesant Falls, N. Y.
Engineering Record 43 : 7 Jan. 5, 1901

*Sterling Hydraulic Co.
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*St. Maurice-Lusanne, Switzerland
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*Sewanee Falls power plant
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*Shawinigan Falls, Canada
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Engineering Record 41 : 391 Apr. 29, 1900

*Hydro-electric development at Turner's Falls
Electrical World 46 : 263 Aug. 12, 1905

*Headworks of the plant of the Toronto & Niagara power Co.
Engineering Record 51 : 405 Apr. 8, 1905

Utilizing water power on Vancouver Island
Electrical World 46 : 91 July 15, 1905

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Electrical World 43 : 33 Jan. 2, 1904
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Walla Walla power plant
American Electrician 13 : 603 Dec. 1901

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Western Electrician 25 : 323 Dec. 2, 1899

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Engineering Record 49 : 340 Mch. 12, 1904
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*Power plant improvements of the Phil. Rapdi Transit System
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*Some features of the central station in Zwofmalgreien
American Electrician 17 : 357 July 1905

*Proposed municipal lighting plant for N. Y. city
Electrical World 46 : 48 July 8, 1905

*Foundations for the Yonkers power house of the N.Y.C.R.R.
Engineering Record 50 : 676 Dec. 10, 1904
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*Construction of the Port Morris power house for the NY.C.R.R.
Engineering Record 51 : 250 Mch. 4, 1905

*Power house of a single phase alternating system
Engineer U.S.A. 52 : 333 Apr. 1, 1905

*Two Japanese power plants of Kyoto
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*A German power plant
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*New station at Bay City
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*Cleveland power house improvements
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*Aurora, Elgin, & Chicago Ry.
St. Ry. Journal 19 : 143 Feb. 1902
20 : 574 Oct. 4, 1902

*Augusta Ry. power station
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*Brooklyn Rapid Transit Co.
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26 : 432 Sept. 23, 1905
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*Berlin elevated and underground railway
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*Boston Elevated power station
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*Some British central electric power stations (H.F.Parshall)
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*Brigham City, Utah, light plant
Engineering News 44 : 235 Sept. 7, 1905

*Boston elevated, Lincoln wharf station
Engineer U.S.A. 40 : 4 Jan. 1, 1903

*Berlin Electric Ry.
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*Brussels electric power station at Anderlecht
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*Boston & Worcester St. Ry.
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*Brussels electric tramways
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| St. Ry. Journal | 25 : 934 | May 27, 1905 |
| *Cranford, N. J. | | |
| Engineering Record | 49 : 355 | Mch. 19, 1904 |
| *Consolidated Traction Co., Pittsburg | | |
| St. Ry. Journal | 15 : 127 | Mch. 1899 |
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| St. Ry. Journal | 15 : 199 | Apr. 1899 |
| | 367 | May 1899 |
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| *Canton & Akron | | |
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| *Cleveland, Painsville, & Ashtabula | | |
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| *Chicago & Western Indiana | | |
| Western Electrician | 37 : 425 | Dec. 2, 1905 |
| *Cincinnati, Georgetown, & Portsmouth Ry. | | |
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| *Clyde Valley electric power Co. | | |
| Engineer U.S.A. | 42 : 534 | Aug. 1, 1905 |
| *Capitol Traction CO., Washington D. C. | | |
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| *Citizens light and power Co. | | |
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| St. Ry. Rev. | 8 : 184 | Mch. 15, 1898 |
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| *Chattanooga electric Co. | | |
| St. Ry. Rev. | 15 : 136 | Mch. 15, 1905 |
| *Carville, Eng. power plant | | |
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| *Dublin United Tramways | | |
| Power | 19 : 1 | Jan. 1899 |

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| *Detroit, Ypsilanti, & Ann Arbor Ry. | | |
| St. Ry. Revew | 10 : 5 | Jan. 15, 1900 |
| Des Moines, Iowa | | |
| Engineering Record | 46 : 25 | July 12, 1902 |
| St. Ry. Journal | 22 : 54 | July 11, 1903 |
| *Denver tramway system | | |
| St. Ry. Journal | 22 : 683 | Oct. 10, 1903 |
| *Dayton & Muncie electric Ry. | | |
| St. Ry. Journal | 26 : 979 | Dec. 2, 1905 |
| *Detroit United Ry. | | |
| St. Ry. Journal | 20 : 445 | Oct. 4, 1902 |
| Everett Railway & Electric Co. | | |
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| *Exeter, Hampton, & Amesbury St. Ry. | | |
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| *Edison Electric Co. Atlantic Ave., Station, Boston | | |
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| *Glasgow Municipal tramways | | |
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| | 17 : 625 | June 1901 |
| Georgetown, Col. | | |
| Western Electrician | 27 : 382 | Nov. 3, 1900 |
| *Grand Rapids, Holland, & Lake Michigan Ry. | | |
| Engineer U.S.A. | 29 : 179 | Mch. 15, 1902 |
| *Hanover, Germany power station | | |
| Power | 25 : 583 | Oct. 1905 |
| Western Electrician | 38 : 55 | Jan. 20, 1906 |
| *Hartford & Springfield Ry. | | |
| Engineering Record | 45 : 485 | May 24, 1902 |
| *Halifax, Eng., tramway | | |
| St. Ry. Journal | 20 : 296 | Sept. 6, 1902 |
| *Harrisburg, Pa. | | |
| St. Ry. Journal | 27 : 61 | Jan. 6, 1906 |
| Hazelton, Pa. | | |
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| *Hebron, Ohio | | |
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| American Elect. | 16 : 501 | Oct. 190 |
| Engineering Record | 51 : 345 | Mch. 25, 1905 |
| | 50 : 384 | Oct. 1, 1904 |
| | 424 | 8, 1904 |
| | 456 | 15, 1904 |
| | 490 | 22, 1904 |
| | 510 | 29, 1904 |
| | 541 | Nov. 5, 1904 |
| Western Electrician | 35 : 211 | Sept. 17, 1904 |
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| *Indianapolis & Cincinnati Traction Co. | | |
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| *Interurban Ry. & Terminal Co., Cincinnati | | |
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| *Independent Electric Light & Power Co., San Francisco | | |
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| *Johnstown, Pa. power station | | |
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| *Kankakee power and light plant | | |
| Western Elect. | 26 : 127 | Mch. 3, 1900 |
| *Kingsbridge power station | | |
| Engineering Record | 50 : 10 | July 2, 1904 |
| " News | 43 : 189 | Mch. 2[illegible] 1900 |
| *Central station at Kien | | |
| Engineer U.S.A. | 42 : 337 | May 15, 1905 |
| *Kaw River power station, Kansas City | | |
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| *Louisville & Nashville Ry. Co., South Louisville, Ky. | | |
| Engineer U.S.A. | 42 : 499 | Aug. 1, 1903 |
| *Louisville Ry. Co. | | |
| Engineer U.S.A. | 42 : 511 | Aug. 1, 1905 |
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| *LaBella power plant, Goldfield, Col. | | |
| Western Elect. | 25 : 267 | Nov. 4, 1899 |
| *Lisbon Ry. power station | | |
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| *Liverpool electric Ry. | | |
| St. Ry. Journal | 17 : 390 | Apr. 1901 |

*London power stations
St. Ry. Journal 18 : 287 Sept. 1901

*Lackawanna & Wyoming Valley R.R.
Engineering Record 47 : 624 June 13, 1903
St. Ry. Journal 21 : 869 June 13, 1903

London County council tramway
St. Ry. Journal 21 : 821 June 6, 1903

*Leicester power station
St. Ry. Journal 23 : 833 June 4, 1904

*Manchester traction Co. (W.V.Batson)
Engineering Record 47 : 107 Jan. 24, 1903
St. Ry. Journal 20 : 700 Sept. 6, 1902
25 : 817 May 6, 1905

*Muskegon, Mich. Light and traction Co.
Engineering Record 48: 452 Oct. 17, 1903

Metropolitan West Side Elevated, Chicago.
St. Ry. Journal 15 : 581 Sept. 1899
709

*McKeesport & Connellsville Ry.
Engineering Record 48 : 264 Sept. 5, 1903

*Manx Ry., Isle of Mann
St. Ry. Journal 23 : 357 Mch. 5, 1904

*Milwaukee gas light Co.
Engineering News 55 : 28 Jan. 11, 1906

*Moulineaux power station, Paris
American Electrician 16 : 325 July 1904

*Power station of the Metropolitan Ry.
Engineer U.S.A. 37 : 271 Nov. 15, 1900
Americal Electrician 13 : 112 Mch. 1900

*Monterey gas and electric Co.
Engineer U.S.A. 43 : 87 Jan. 16, 1905

*Market St. Ry. Co., of San Francisco
Power 19 : 3 Mch. 1899

*Manhattan elevated Ry.
Power 21 : 1 Apr. 1901
St. Ry. Rev. 9 : 82 Feb. 15, 1899
Engineer U.S.A. 39 : 80 Feb. 1, 1902
Engineering News 47 : 80 Jan. 30, 1902

*Millford, Attleboro, & Woonsocket Ry.
St. Ry. Rev. 10 : 638

| | | |
|---|---|---|
| *N. Y. C. power house | | |
| Electrical World | 46 : 85 | July 1905 |
| Power | 24 : 228 | Apr. 1904 |
| *Newcastle & District electric lighting Co. | | |
| Engineer U.S.A. | 40 : 29 | Jan. 1, 1903 |
| *Northwestern elevated R.R. | | |
| St. Ry. Rev. | 15 : 199 | |
| | 267 | |
| | 17 : 655 | |
| | 19 : 500 | |
| | 23 : 162 | |
| Newcastle, Eng. | | |
| Engineering Record | 46 : 157 | Aug. 16, 1902 |
| *N. Y. Gas and electric light and power Co. | | |
| Engineering News | 45 : 375 | May 23, 1901 |
| *Oakland, California | | |
| Engineering Record | 49 : 591 | May 7, 1904 |
| *Omaha & Council Bluffs Ry. & Bridge Co. | | |
| St. Ry. Rev. | 9 : 296 | May 15, 1899 |
| *Paris Metropolitan | | |
| American Electrician | 16 : 111 | Mch. 1904 |
| Engineer U.S.A. | 40 : 13 | Jan. 1, 1903 |
| *Pan American Exposition | | |
| Engineer U.S.A. | 38 : 158 | June 1, 1901 |
| *Paris Exposition plant | | |
| Power | 19 : 7 | Dec. 1899 |
| Pittsburg Traction Co. | | |
| St. Ry. Rev. | 9 : 135 | Feb. 15, 1899 |
| | 15 : 401 | July 15, 1905 |
| Philadelphia Rapid Transit Co. | | |
| St. Ry. Rev. | 15 : 536 | Sept. 15, 1905 |
| Engineering Record | 47 : 611 | June 20, 1903 |
| | 52 : 340 | Sept. 23, 1905 |
| *Electrical power development at Portland, Ore. | | |
| Electrical World | 46 : 174 | July 29, 1905 |
| Engineering Record | 52 : 142 | Aug. 5, 1905 |
| *Peekskill, N. Y. light and Ry. Co. | | |
| St. Ry. Journal | 20 : 92 | July 19, 1902 |
| *Pacific Electric Ry. Co., Los Angeles | | |
| St. Ry. Journal | 23 : 394 | Mch. 12, 1904 |

*Richmond, Va.
Engineering Record 49 : 11 Jan. 2, 1904

Rock Island Ry. shops at East Moline, Ill.
Engineering Record 50 : 137 July 30, 1904

*Rochester power plant
Engineer U.S.A. 38 : 712 Sept. 1, 1901

*Scioto Valley traction Co.
Engineering Record 50 : 644 Dec. 3, 1904

*St. Louis exposition power plant
Engineering News 42 : 320
American Electrician 16 : 528 Oct. 1904
Engineering News 42 : 223 Sept. 15, 190[illegible]
Western Electrician 35 : 303 Oct. 15, 1904
Power 23 : 481 Nov. 190[illegible]

*Saginaw & Bay City Ry. & light Co.
Engineer U.S.A. 42 : 399 June 15, 1905

*St. Louis Transit Co.
St. Ry. Journal 11 : 813 Nov. 15, 1901
Engineering News 47 : [illegible]69 Apr. 3, 1902
297 " 10, "

*Stark electric Ry. Co.
St. Ry. Journal 25 : 10 Jan. 7, 1905

*The Sunderland District Tramways
St. Ry. Journal 26 : 96 July 15, 1905

St. Clair tunnel, G and Trunk Ry.
Engineering News 55 : 62 Jan. 19, 190[illegible]

Dayton, Springfield, & Urbana Ry.
American Electrician 12 : 415 Sept. 1900

Southern Pacific Co., Galveston, Texas
American Electrician 15 : 476 Oct. 1903

*Syracuse power station
St. Ry. Journal 19 : 517 May 1902

*Sydney, New South Wales
St. Ry. Journal 20 : 970 Dec. 6, 1902

*Seattle power station
St. Ry. Journal 21 : 649 May 2, 1903

*South Side Elevated
Western Electrician 26 : 271 Apr. 14, 190[illegible]

*Springfield, Ill., light and power Co.
Electrical World 47 : 253 Feb. 3, 1906

*Toledo & Monroe
St. Ry. Journal 18 : 124 Aug. 1901

*Tokio electric Ry.
St. Ry. Journal 19 : 245 Mch. 1902

*Toledo, Port Clinton, & Lakeside Ry.
Engineer U.S.A. 47 : 295 Mch. 1906

*Toledo & Western Ry.
St. Ry. Journal 20 :980 Dec. 2a, 1902

*Twin City rapid transit Co.
Engineering Record 50 : 692 Dec 10, 1904
St. Ry.

*Terminal R.R. Ass'n., of St. Louis
Engineering Record 51 : 92 Jan. 28, 1905

*Trans-Mississippi Exposition, Omaha
Power 18 :7 June 1898

Toledo and Maumee Valley Ry.
St. Ry. Rev. 9 : 613 Sept. 15, 1899
American Electrician 12 : 464 Oct. 1900

*United Railways and electric Co., Baltimore
Engineer U.S.A. 39 : 757 May 15, 1903

Union Traction Co.
St. Ry. Rev. 9 : 12 Jan. 15, 1899

*Union tract Co., Anderson, Ind.
Engineering Record 43 : 495 May 25, 1901
St. Ry. Journal 18 : 806 Dec. 1901

*United electric Co., Hoboken, N. J.
Engineering Record 46 : 56 July 19, 1902

*Union Loop power house, Chicago
Western Electrician 24 : 1 Jan. 7, 1899

*Virginia electric Ry. and equipment Co.
Engineering News 45 : 318 May 2, 1901

*Voltellina three phase Ry.
St. Ry. Journal 21 : 791 May 30, 1903

*Worcester and Blackstone Valley phase Ry.
Engineering Record 47 : 468 May 2, 1903

*Warren & Jamestown single phase Ry.
St. Ry. Journal 27 : 270 Feb. 16, 1906
Electrical World 47 : 363 Feb. 17, 1906

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|---|---|---|
| *Washtenaw electric Co. | | |
| Engineer U.S.A. | 38 : 150 | May 15, 1901 |
| *Williamantic gas and electric Co. | | |
| Engineer U.S.A. | 48 : 167 | Mch. 1, 1905 |
| *West Albany power station | | |
| Power | 24 : 677 | Nov. 1904 |
| Wilkesbarre Interurban Ry. | | |
| St. Ry. Rev. | 9 :131 | Feb. 15, 1899 |
| *Weehauken Sta., N.Y.C.&H.R.R. | | |
| American Electrician | 17 : 501 | Oct. 1905 |
| Engineering News | 54 : 506 | Nov. 16, 1905 |
| St. Ry. Journal | 26 : 872 | Nov. 11, 1905 |
| Engineering Record | 52 : 557 | Nov. 11, 1905 |
| *Western Pa. Ry. & Light System | | |
| St. Ry. Journal | 20 : 179 | Aug. 2, 1902 |
| *Zanesville Ry. & Light Co. | | |
| Electrical World | 43 : 509 | Mch. 19, 1904 |

TURBINE PLANTS.

*Amsterdam-Harlem electric Ry.
Engineering Record 51 : 18 Jan. 17, 1905
St. Ry. Journal 25 : 21 Jan. 7, 1905

*Brooklyn Rapid Transit, Williamsburg, plant
St. Ry. Journal 26 : 432 Sept. 23, 1905

*Champ generating station
American Electrician 17 : 65 Feb. 1905

*Clyde valley electric power Co.
Engineering Record 52 : 299 Sept. 9, 1905

*Chelesea generation station of the London Underground
Engineering Record 52 : 215 Feb. 25, 1905
Power 23 : 421 Aug. 1903
St. Ry. Journal 25 : 388 Mch. 4, 1905

*Commonwealth electric Co., Fisk St. station
Western Electrician 38 : 55 Jan. 20, 1906

Dubuque, Ia. power plant
Engineering Record 50 :208 Aug. 13, 1904

Detroit Edison Co.
Engineering Record 52 : 194 Oct. 7, 1905

*DeBeers consolidated mines
Engineering Record 51 : 4 Jan. 7, 1905

*Edison electric illumination Co., Boston
Engineering Record 51 : 150 Feb. 11, 1905
Power 25 : 389 July 1905

*Hartford electric light Co., Dutch Point plant
Engineering Record 51 : 204 Feb. 25, 1905

*Long Island R.R. power house
St. Ry. Journal 25 : 24 Jan. 7, 1905
Engineering Record 49 : 454 Apr. 9, 1904

*Mexican Central shops at Aguascalientes
Engineering Record 50 : 227 Aug. 20, 1904
247 27, 1904

*Municipal turbine plant, Anderson, Ind.
Engineer U.S.A. 42 : 641 Oct. 2. 1905

*Manchester, England power station
St. Ry. Journal 25 : 934 May 27, 1905

*New York Edison, Waterside station
Electrical World 46 : 383 Sept. 2, 1905
475 9, 1905
Power 22 : 1 Jan. 1902

*New Orleans power house
Power 24 : 651 Nov. 1904
St. Ry. Rev. 9 : 397 June 15, 1899

New Bedford power station
St. Ry. Rev. 11 : 884 Dec. 1901

*Old Colony St. Ry., Quincy Point Sta.
Engineering Record 51 : 646 June 10, 1905
St. Ry. Journal 25 : 1082 June 10, 1905
Engineer U.S.A. 43 : 85 Jan. 15, 1906

*Steam turbine plant at a Poughkeepsie, N. Y. shop
Engineering Record 51 : 454 Apr. 1905

*Portland General Electric Co.
Engineering Record 50 : 176 Aug. 12, 1905

*Pacific Cost power and light station
Power 18 : 1 May 1898

*Public service corporation
St. Ry. Journal 25 : 383 Feb. 18, 1905

*Terre Haute Traction and light Co.
Engineering Record 51 : 141 Feb. 4, 1905
St. Ry. Journal 25 : 186 Feb. 4, 1905

*United railways of San Francisco
Power 25 : 455 Aug. 1905

*Yale & Towne Mfg. Co.
Power 24 : 355 May 1904

APARTMENTS.

*Coolingwood apartment hotel, N. Y.
Engineering Record 46 : 325 Apr. 5, 1902

*Ansonia apartment hotel, N. Y.
Engineering Record 46 : 467 Nov. 15, 1902

HOSPITALS.

*Agnes Memorial Sanatarium
Engineering Record 50 : 312 Sept. 10, 1904

*Connecticut Hospital for the Insane
Engineering Record 52 : 44 July 8, 1905

*Lakeside Hospital, Cleveland, Ohio.
Engineer U.S.A. 39 : 108 Feb. 15, 1902

*Mass. General Hospital, Boston.
A.S.M.E. 22 : 392 Jan. 1901

HOTELS.

*Bellevue-Stratford hotel, Phila.,
Engineering Record 51 : 14 Jan. 7, 1905

*Hotel Belmont, N. Y.
Engineering Record 52 : 779 Dec. 30, 1905
57 : 9 Jan. 6, 1906
56 13,
81 20

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|---|---|---|
| *Hotel Gotham, N. Y. | | |
| American Elect. | 17 : 551 | Nov. 1905 |
| Engineering Record | 58 : 517 | Nov. 4, 1905 |
| N. Y. Athletic Club | | |
| Electrical World | 31 : 463 | Apr. 16, 1898 |
| | 585 | May 14, 1898 |
| University Club | | |
| Engineering Record | 46 : 76 | July 12, 1902 |

MANUFACTURING PLANTS.

| | | |
|---|---|---|
| *American steam pump Co. | | |
| Engineer U.S.A. | 39 : 217 | Apr. 1, 1902 |
| *Atlas Knitting mills | | |
| Power | 25 : 408 | July 1905 |
| *American Lithographic Co. | | |
| American Electrician | 10 : 1 | |
| Armour Packing Co., (J.F.Smith) | | |
| American Electrician | 12 : 202 | May 1900 |
| Western Electrician | 23 : 305 | Nov. 26, 1898 |
| *Anheuser-Busch Brewing Ass'n. | | |
| Engineer U.S.A. | 40 : 67 | Feb. 1, 1905 |
| Power | 25 : 84 | Feb. 1905 |
| *Booth cold storage | | |
| Engineering Record | 45 : 97 | Feb. 1, 1902 |
| *Columbian Cordage Co. | | |
| Engineering Record | 50 : 447 | Oct. 15, 1904 |
| *Power plants for cotton mills | | |
| Engineer U.S.A. | 41 : 135 | Feb. 15, 1904 |

| | | |
|---|---|---|
| *Cudahy packing Co. | | |
| Engineer U.S.A. | 38 : 82 | Mch. 1, 1901 |
| Western Electrician | 28 : 297 | May 4, 1901 |
| Central Lard Co. | | |
| Engineering Record | 46 : 122 | Aug. 9, 1902 |
| *Carpenter Steel Works | | |
| Engineering Record | 46 : 220 | Sept. 6, 1902 |
| *Deere & Co., Moline, Ill. | | |
| Engineer U.S.A. | 40 : 617 | Aug. 15, 1903 |
| Deering Harvester Co. | | |
| American Electrician | 12 : 581 | Aug. 1900 |
| Dixon Crucible Co. | | |
| American Electrician | 13 : 517 | Nov. 1901 |
| *Edison Portland Cement Co. | | |
| Electrical World | 42 : 1051 | Dec. 26, 1903 |
| *Ford Plates Glass Co. | | |
| Engineer U.S.A. | 38 : 107 | Apr. 1, 1901 |
| Henry Heide Candy Co. | | |
| Engineering Record | 51 : 569 | May 20, 1905 |
| *Ingersoll-Sargent Drill Co. | | |
| American Electrician | 17 : 237 | May 1905 |
| Power | 25 : 333 | June 1905 |
| Littleton Creamery, Denver | | |
| Engineering Record | 50 : 159 | Aug. 6, 1904 |
| *Loray Mills, Gastonia, N. C. | | |
| Engineer U.S.A. | 40 : 222 | Mch. 16, 1903 |
| *Laden factory | | |
| Power | 25 : 468 | Aug. 1905 |
| *Patton Paint Co., Newark, N. J. | | |
| Electrical World | 42 : 454 | Sept. 12, 1903 |
| Engineer U.S.A. | 40 : 798 | Oct. 15, 1903 |
| *Modern malt house | | |
| Western Electrician | 37 : 101 | Aug. 5, 1905 |
| *John Mehl factory, Jersey City | | |
| Engineer U.S.A. | 38 : 245 | July 1, 1901 |
| *Manchester, N. H. mills | | |
| Electrical World | 41 : 269 | Feb. 14, 1903 |
| Monarch Mills, Union, S. C. | | |
| Engineering Record | 50 : 380 | Sept. 24, 1904 |

*McCormick Twine Mills
Western Electrician 28 : 109 Feb. 16, 1901

*National Cash Register Co., Dayton
Engineer U.S.A. 39 : 136 Mch. 1, 1902

*New England Confectionery Co.
Engineer U.S.A. 41 : 231 Apr. 1, 1904

*Otis Elevator Co., Yonkers, N. Y.
Engineer U.S.A. 39 : 327 May 1, 1902

*Olympia Cotton Mills
Engineer U.S.A. 38: 382 Oct. 15, 1901

*Power plant of a large silk mill
Engineer U.S.A. 78 : 424 Nov. 15, 1901

*Power plant of a sulphite mill
Engineer U.S.A. 78 : 445 Dec. 1, 1901

*Swift & Co.
American Electrician 13 : 149 Apr. 1901

*Stickney & Poor spice factory, Charlestown, Mass.
American Electrician

United Machinery Co.
Engineering Record 52 : 198 Aug. 15, 1905

*Whittall Mills
Engineering Record 51 : 510 May 6, 1905

*Washington Mill Co., Lawrence, Mass.
Engineering 66 : 555 Oct. 21, 1898

*Western Electric Co., N. Y. Factory
American Electrician 12 : 333 July 1900

*Wetmore tobacco factory
American Electrician 13 : 61 Feb. 1901

Western Wheel Works, Chicago
Western Electrician 22 : 75 Feb. 5, 1898

MISCELLANEOUS.

| | | |
|---|---|---|
| *Boston south terminal station | | |
| Engineering Record | 39 : 346 | Mch. 18, 1899 |
| *Brooklyn Institute of Arts and Sciences | | |
| American Electrician | 17 : 101 | Mch. 1905 |
| *Birmingham University (C.A.Smith) | | |
| Engineering | 80 : 341 | Sept. 15, 1905 |
| | 397 | 29, |
| | 507 | Oct. 20, 1905 |
| *Bryn Maur College (C. G. Gray) | | |
| Engineering Record | 53 : 183 | Feb. 17, 1906 |
| *University of California | | |
| Engineer U.S.A. | 42 : 267 | Apr. 15, 1905 |
| *Chicago, Milwaukee, & St. Paul Ry. Shops | | |
| Engineering Record | 48 : 594 | Nov. 14, 1903 |
| *Columbia University | | |
| Engineering Record | 39 : 546 | May 13, 1899 |
| *University of Chicago | | |
| Engineering Record | 45 : 246 | Mch. 15, 1902 |
| *DuBois shops | | |
| Engineering Record | 46 : 218 | Sept. 6, 1902 |
| St. Ry. Journal | 21 : 694 | May 9, 1903 |
| *Elizabethport railroad shops | | |
| Engineering Record | 45 : 581 | June 21, 1902 |
| *Hippodrome, N. Y. | | |
| Engineering Record | 52 : 229 | Aug. 26, 1905 |
| *Harvard electric light plant (W.L.Robb) | | |
| American Electrician | 12 : 107 | Mch. 1900 |
| Lackawanna R. R. | | |
| Engineering Record | 52 : 507 | Nov. 4, 1905 |
| *Michigan University (H.S.Carhart) | | |
| Electrical World | 31 : 550 | May 7, 1898 |
| *Nassau, Bahama Islands plant | | |
| Electrical World | 37 : 914 | June 1, 1901 |
| *Ohio State University | | |
| Engineer U.S.A. | 39 :164 | Mch. 15, 1902 |
| Electrical World | 34 : 1005 | Dec. 30, 1899 |
| *Princeton University | | |
| Engineer U.S.A. | 41 : 411 | June 15, 1904 |

*Simmons College, Boston
Engineering Record 51 : 161 Feb. 11, 1905

*Scranton Schools
Engineer U.S.A. 37 : 148 June 1, 1900

*Power plant of a University (E.A.Darling)
A.S.M.E. 20 : 665 1899

Keystone Bank Bldg., Pittsburg
American Electrician 15 : 171

*Kimball Bldg., Boston, (H.S.Knowlton)
Engineer U.S.A. 42 : 819 Dec. 15, 1905

Large and modern isolated plant
American Electrician 15 : 1

Land Title and Trust Bldg., Phialdelphia
Electrical World 32 : 45

*Murphy Power Bldg.
Engineer U.S.A. 42 : 67 Jan. 16, 1905

Mutual Life Bldg.
Engineering Record 47 : 85

Maiden Lane Bldg., N. Y.
Engineering Record 48 : 770

Methodist Book Concern, Chicago
Western Electrician 36 : 199

Modern commercial Bldg.
Electrical World 32 : 627

*National Bank Bldg., Pittsburg
Engineer U.S.A. 40 : 787 June 1, 1903

*First National Bank, Chicago
Power 25 : 297 May 1905

*First National Bank, Uniontown, Pa.
Engineering Record 46 : 13

New Bldg., Dallas
American Electrician 14 : 11 Jan. 1902

Oliver Bldg., Boston
Engineering Record 50 : 717 Dec. 17, 1904

Power Plants of office buildings
Engineering News 51 : 537
Engineering Record 49 : 725
Power 24 : 419 July 1904
A.S.M.E. 20 : 880 1899

*Power plants of the tall office buildings (J. H. Wells)
Engineering 78 : 130 July 22, 1904
Engineering Review 14 : 19 July 1904

*Power plants of tall office buildings (Wells & Bolton)
A.S.M.E. 25 : 685 June 1904
1011

| | | |
|---|---|---|
| *Phipps Bldg., Pittsburg<br>Engineering Record | 50 : 347 | Sept. 17, 1904 |
| *Power Bldg., In Providence<br>Engineering Record | 51 : 162 | Feb. 11, 1905 |
| *Park Row Bldg.<br>power<br>Electrical World | 22 : 1<br>34 : 5 | Oct. 1902 |
| *Prudential Bldg., Newark, N. J.<br>Engineering Record | 46 : 767 | |
| *Pittsburg & Lake Erie terminal<br>Engineering Record | 46 : 98<br>152 | Aug. 2, 1902<br>16, 1902 |
| Penn. R. R. station, Pittsburg<br>Engineering Record | 46 : 203 | Aug. 30, 1902 |
| *Rose Bldg., Cleveland<br>Engineer U.S.A. | 78 : 404 | Nov. 1, 1901 |
| *Railway Exchange Bldg., Chicago<br>Engineer U.S.A. | 41 : 763 | Nov. 15, 1904 |
| *Rogers-Peet Bldg., N. Y.<br>Engineering Record | 46 : 36 | July 12, 1902 |
| Republic Bldg., St. Louis<br>American Electrician | 12 : 67 | Feb. 1900 |
| *Rock Island Sta., Chicago<br>Engineering Record | 48 : 308 | Sept. 19, 1903 |
| *Tribune Bldg., Chicago<br>Engineering Record | 45 : 607 | |
| *Western Reserve Bldg.<br>Engineer U.S.A. | 38 : 87 | Mch. 1, 1901 |
| *Wells Bldg., Milwaukee<br>Engineer U.S.A. | 40 : 189 | Mch. 8,1903 |

STORES.

| | | | |
|---|---|---|---|
| Boston Post Office | | | |
| Electrical World | 46 | 486 | Sept. 16, 1905 |
| *Daniel's & Fisher, Denver | | | |
| Engineering Record | 50 | 394 | Sept. 3, 1904 |
| *Ferguson McKinnery Dry Goods Co., St. Louis | | | |
| Engineer U.S.A. | 40 | 131 | Feb. 2, 1903 |
| *Marshall Field & Co. | | | |
| Engineering Record | 48 | 366 | Sept. 26, 1903 |
| Western Electrician | 31 | 165 | Sept. 13, 1902 |
| N. Y. Federal Bldg. | | | |
| Electrical World | 31 | 379 | Mch. 25, 1898 |
| Government printing office | | | |
| Electrical World | 31 | 94 | Jan. 15, 1898 |
| | | 115 | Jan. 22, 1898 |
| Engineering Record | 47 | 512 | May 16, 1903 |
| | | 543 | May 23, 1903 |
| *Modern Printing plant | | | |
| Engineer U.S.A. | 41 | 443 | July 1, 1904 |
| *Toetz store, Munich | | | |
| Engineering Record | 53 | 160 | Feb. 10, 1906 |
| *Wanamaker Store | | | |
| Engineering Record | 52 | 94 | July 22, 1905 |
| | | 125 | July 29, 1905 |
| Engineering Record | 53 | 219 | Feb. 24, 1906 |

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ALBANY.

*Albany steam trap

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| American Elect. | 9 : 243 | June 1897 |
| American Elect. | 14 : 57 | Jan. 1902 |
| Engineering Record | 54 : 91 | July 4, 1896 |
| | 168 | Aug. 1, 1896 |
| Engineering Review | 14 : | Feb. 26, 1904 |
| Heating & Ventilation | 7 : | Jan. 15, 1897 |
| Power | 16 : 13 | Sept. 1896 |
| | 19 : 36 | Dec. 1898 |

BRANCH

*Branch steam trap

| | | |
|---|---|---|
| American Elect. | 14 : 592 | Dec. 1902 |
| Power | 27 : 503 | Sept. 1903 |

BUNDY

*Bundy return steam trap

| | | |
|---|---|---|
| American Elect. | 10 : 349 | July 1898 |
| Engineer U.S.A. | 36 : 83 | 1899 |
| Engineer U.S.A. | 40 : 794 | June 1, 1905 |
| Power | 16 : 4 | Aug. 1896 |
| | 17 :14 | May 1897 |

DIAMOND

*Diamond steam trap

| | | |
|---|---|---|
| Engineering Record | 33 : 86 | Jan. 4, 1896 |

GEIPEL

| | | |
|---|---|---|
| *American Machinist | 20 : 95 | Feb. 4, 1897 |
| Elect. Rev. (Lond) | 44 : 83 | Jan. 20, 1899 |
| Engineering | 68 : 95 | July 7, 1899 |
| | 77 : 236 | Feb. 12, 1904 |
| Power | 16 : 91 | Dec. 1896 |
| | 20 : 15 | Apr. 1900 |
| Western Electrician | 19 : 516 | Dec. 26, 1896 |

GRANGER

*Grinnell compound expansion trap

| | | |
|---|---|---|
| Engineer (Lond) | 85 : 790 | Apr. 17, 1907 |
| | 99 : 72 | Jan. 20, 1905 |
| Engineering | 75 : 446 | Apr. 7, 1903 |

H. H.

*H.H. steam trap

| | | |
|---|---|---|
| American Elect. | 14 : 204 | Apr. 1902 |
| Power | 22 : 50 | Apr. 1902 |

HOLDEN & BROOK

*Holden and Brook steam trap

| | | |
|---|---|---|
| American Elect. | 14 : 340 | July 1902 |
| | 16 : 38 | Jan. 1904 |
| Engineer (Lond) | 96 : 374 | Oct. 16, 1903 |

IDEAL.

Ideal steam trap

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|---|---|---|
| Power | 24 : 690 | Nov. 1904 |

JENKINS BROS.

*Simple trap, Jenkin Bros.

| | | |
|---|---|---|
| American Machinist | 18 : 1024 | Dec. 26, 1895 |
| Eng. & Mining Jour. | 61 : 257 | Mch. 14, 1896 |

*Lamploughs steam trap

| | | |
|---|---|---|
| Engineering | 66 : 607 | Nov. 11, 1898 |

MISCELLANEOUS.

*An improved steam trap

| | | |
|---|---|---|
| American Elect. | 10 : 394 | Aug. 1898 |

*Return steam trap

| | | |
|---|---|---|
| American Elect. | 14 : 221 | May 1902 |
| Engineer (Lond) | 93 : 331 | Apr. 4, 1902 |

*Simple expansion steam trap

| | | |
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| American Elect. | 15 : 204 | May 1903 |

*Compound expansion steam trap

| | | |
|---|---|---|
| American Elect. | 15 : 256 | July 1903 |

*New boiler feed regulator and steam trap

| | | |
|---|---|---|
| American Machinist | 21 : 706 | Sept. 22, 1898 |

*New steam trap
Elect. Rev. London 46 : 708 Feb. 27, 1900
Engineer (Lond) 81 : 626 June 10, 1898

*Water seal steam trap
Engineer (Lond) 98 : 504 Nov. 18, 1904

*Simple steam trap
Engineer U.S.A. 76 : 979 1899

*Steam trap
Engineer U.S.A. 37 : 162 July 2, 1900
38 : 394 Oct. 15, 1901

*High pressure steam trap
Engineering 72 : 693 May 9, 1902

*Automatic continuous discharge steam trap
Engineering News 78 : 575 Dec. 9, 1917

*New steam trap
Power 22 : 50 Apr. 1902

*New intermittant steam trap
Power 22 : 44 Sept. 1902

MOREHEAD

*Morehead steam trap
Engineering Record 47 : 472 May 9, 1903

*Morehead steam trap
Engineering Rev. 12 : Oct. 27, 1900
Western Electrician 32 : 450 May 5, 1900

*

TUNLEY.

*Tunley steam trap
Elect. Rev. (Lond) 46 : 786 May 11, 1900
Engineer (London) 10 : 97 Aug. 10, 1900

THORPE & PLATT

*Thorpe and Platt steam trap
Elect. World 28 : 765 Dec. 19, 1896

VICTOR.

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